



TACTICAL SYNTHETIC APERTURE RADAR (TACSAR) AIRBORNE RECONNAISSANCE SYSTEM

A TRUE FORCE MULTIPLIER PROVIDING BATTLE-WINNING ISR

Collins Aerospace offers the new TacSAR airborne reconnaissance system. Built on the operational pedigree of the DB-110 EO IR system, in partnership with Leonardo, TacSAR provides commanders with a vital all-weather ISR capability.

The TacSAR pod has seen the integration of the Leonardo Advanced Electronically Scanned Array (AESA) into the DB-110 architecture and offers 24/7 mission effectiveness for multiple combat ISR missions. The multi-mode TacSAR allows commanders to use their existing fast jets for true multi-role combat operations.



TacSAR AESA

KEY FEATURES & BENEFITS

- Frequency: X-band
- All-weather operation
- High resolution, wide swath SAR mapping
- Land and maritime operation
- Wide FOV area coverage
- Interleaved modalities for mission flexibility
- High reliability
- Compact form and fit
- Mature proven solution

A view to the future for tactical reconnaissance

TacSAR is a true end-to-end operational capability and shares common support equipment and infrastructure with the DB-110 system. The key elements of the TacSAR system are:

- Mission planning
- Ground support equipment
- Airborne reconnaissance pod
- Data-link
- Processing, exploitation and dissemination
- Training and support for all elements including radar imagery analysis

The TacSAR's mission flexibility is provided by the multi-mode AESA manufactured by Leonardo. The radar offers the following all-weather modes of operation:

- High resolution spot SAR imaging for areas of specific interest
- Wider area strip SAR imaging for wide-area targets (such as airfields) or reconnaissance of line features
- Wide area Ground Moving Target Indicator (GMT)
 - Real-time or forensic data on moving ground targets over a wide area
- Maritime surveillance and tracking for a comprehensive picture of surface vessels
- Mode interleaving to maximise operational flexibility and all-weather operations

TacSAR is a unique collaboration between ISR specialists with proven operational pedigrees world-wide. The multi-mode radar provides commanders with the ultimate capability in terms of mission flexibility and all-weather operations.



High Resolution Spot SAR Image



Wide-Area Strip SAR Image

Specifications subject to change without notice.



COLLINS AEROSPACE

+1.973.303.6700

collinsaerospace.com

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